

Model: EIR508 Series

Eight Port Managed Industrial Ethernet Switches





Features

- √ X-Ring Automatic Recovery
- ✓ Dual 12 to 48 VDC Power Inputs
- ✓ Relay Alarm Output
- ✓ IP30 DIN Rail or Panel Mount
- ✓ Wide Operating Temperature
- ✓ Automatic E-mail Notification for system events
- ✓ SNMP or Web GUI Management

Functional Description

The Elinx EIR508 series of Industrial Managed Ethernet Switches provide powerful functionality in a small package. Designed for industrial applications, these switches contain all the standard features of other switches, such at IGMP Snooping, Port Based VLAN, 802.1Q Tag VLAN, RJ-45 automatic MDI/MDI-X, auto negotiation, store and forward switching, STP, RSTP, Web Based Management, Ingress Packet Filtering, and Egress Rate Control. These managed switches also come with important industrial features to ensure reliability in an industrial application. X-Ring technology with coupling ring and dual homing allows automatic recovery in less than 300 MS. Dual power inputs ensure reliability. A relay alarm output for port failure notification. DIN Rail and Panel Mounting options on the same IP30 case. Another important feature is automatic e-mail notification for system events such as a cold start, change in network topology, power status or SNMP authentication failure.

Ordering Information

Model Number	Description
EIR508-T	Industrial Managed Ethernet Switch, 8 10/100 RJ-45 Ports
EIR508-2MC-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 MM FO (SC) Port
EIR508-2MT-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 MM FO (ST) Port
EIR508-2SC-T	Industrial Managed Ethernet Switch, 6 10/100 RJ-45 Ports, 2 SM FO (SC) Port (30 KM)



Specifications

Technology

IEEE Standards 802.3 10Base-T Ethernet, 802.3u 100Base-TX and 100Base-FX Fast Ethernet

802.3x Flow Control and Back Pressure, 802.1d Spanning Tree, 802.1w Rapid Spanning Tree

802.1p Class of Service, 802.1Q VLAN Tag

Processing Type Store and Forward

Flow Control Flow control on full duplex, Back Pressure on half duplex

MAC Address Table Size 2 KB Memory Buffer 1 MB Protocol CSMA/CD

Management SNMP, Web GUI, and reset to factory default button

Transfer Rate 14,880 bps for Ethernet ports, 14,8800 for Fast Ethernet ports

Transfer Packet Size 64 bytes to 1522 bytes (with VLAN tag)

Packet throughput ability 1.49 Mbps @ 64 bytes

X-Ring 2 ports for X-Ring provide redundant backup with a recovery time below 300 MS.

Packet Filter 4 Selection Rules to filter combinations of Broadcast , Multicast, Unicast, and Unknown packets.

VLAN Port based and Tag. Up to 64 VLAN groups

Class of Service 4 priority queues per port

Quality of Service Port based, Tag based, or IPv4 Type of Service IGMP IGMP v1 and Query mode. Up t o 256 groups

Clock Synchronization SNTP
Management Security IP Address

Port Mirror TX packet only or TX and RX packet

Firmware Update TFTP

DHCP Client Function to obtain addresses from DHCP server

Bandwidth Control Ingress Packet Filter rules and Egress Rate Control

Interface

RJ-45 Ports
10/100BaseT with auto negotiation, Full/Half Duplex, MDI/MDI-X
Fiber Ports
100Base FX, single-mode or multi-mode with ST or SC connectors
Port Indicators (each port)
System Indicators
Green LEDs for Power, Power 1, Power 2, and Master. Yellow LED for Fault.

Fiber Optics

Fiber Type Distance Wavelength Cable Output Optical Power Input Power Min Multimode 2 KM 1310 nm 62.5/125 um -10 to 0 dBm < -28 dBm Single Mode 30 KM 1310 nm 9/125 um -15 to -8 dBm < -34 dBm

Power

Input Voltage 12 to 48 VDC, dual source

Current Consumption 0.8 A max.
Input Connection Terminal Block
Relay Alarm 1A @ 24VDC

Mechanical

Enclosure IP30 Aluminum Case Mount 35 mm DIN or Panel

Dimensions 2.3 x 5.7 x 4.3 in (5.8 x 14.5 x 10.9 cm)

CE Declaration of Conformity

Manufacturer's NameB&B Electronics Mfg COManufacturer's707 Dayton RoadAddressPO Box 1040
Ottawa, IL 61350 USAModel NumbersEIR508-T, EIR508-2xx-T seriesDescriptionIndustrial Managed SwitchTypeLight Industrial ITE Equipment

Application of Council Directive 89/336/EEC

Standards EN55022

EN61000-4-2, -4-3, -4-4, -4-5 EN61000-4-6, -4-8, -4-11, -4-12

EN61000-6-2, -6-4

Michael J. Fahrion, Director of Engineering

SNMP MIB SNMP Trap

RFC 1213 MIBII Up to 3 Trap Stations
RFC 1493 Bridge MIB Cold Start
RMON RFC 1757 Port link up
RFC 2674 VLAN MIB Port link down

RFC 1643 Ethernet like MIB

RFC 1215 Trap MIB

Private MIB for switch info

Power status

Port Alarm
Fault Alarm
X-Ring

Environmental

Operating Temperature -40 to 167 F (-40 to 75 C)
Storage Temperature -40 to 185 F (-40 to 85 C)
Operating Humidity 0 to 95% NC
MTBF EIR508-T 319175 hours
MTBF EIR508-2xx-T 315109 hours

Regulatory Approvals

EMI FCC Class A

EN6100-4-2, -4-3, -4-4, EN6100-4-5, -4-6

 Safety
 EN60950

 Free Fall
 IEC60068-2-32

 Shock
 IEC60068-2-27

 Vibration
 IEC60068-2-6



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